UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/765,365	01/22/2001	Kotaro Nagahama	Q62489	8605

7590   07/02/2004

SUGHRUE, MION, ZINN, MACPEAK & SEAS
2100 Pennsylvania Avenue, N.W.
Washington, DC 20037

EXAMINER
ZIA, MOSSADEQ

ART UNIT	PAPER NUMBER
2134	

DATE MAILED: 07/02/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 10/03)

	Application No.	Applicant(s)	
Office Action Summary	09/765,365	NAGAHAMA, KOTARO	
	Examiner	Art Unit	
	Mossadeq Zia	2134	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE _3_ MONTH(S) FROM
THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed
  after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any
  earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) ☒ Responsive to communication(s) filed on _22 January 2001_.
2a) ☐ This action is **FINAL**.   2b) ☒ This action is non-final.
3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is
closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) ☒ Claim(s) _1-16_ is/are pending in the application.
　　 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
5) ☐ Claim(s) _____ is/are allowed.
6) ☒ Claim(s) _1-16_ is/are rejected.
7) ☐ Claim(s) _____ is/are objected to.
8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) ☐ The specification is objected to by the Examiner.
10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
　　 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
　　 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
　　 a) ☐ All　b) ☐ Some *　c) ☐ None of:
　　　　 1. ☐ Certified copies of the priority documents have been received.
　　　　 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
　　　　 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage
　　　　　　 application from the International Bureau (PCT Rule 17.2(a)).
　　 * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)
1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
　　 Paper No(s)/Mail Date _1_.
4) ☐ Interview Summary (PTO-413)
　　 Paper No(s)/Mail Date. _____.
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☐ Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 102

1.   The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that

form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2.   Claims 1-16 are rejected under **35 U.S.C. 102(b)** as being anticipated by Patent

No. 4,720,860, Weiss.

3.   Regarding claim 1, Weiss show a terminal certification system comprising:

plurality of terminals (Weiss, col. 7, line 23-28); and

connection apparatus connected to said terminals (telephonic transmission with

modem, Weiss, col. 8, line 45-46),

wherein said connection apparatus and said plurality of terminals each includes a

password controller (Weiss, col. 1, line 55-56) which changes password according to

passage of time (Weiss, col. 5, line 11-15), and

wherein when said terminal tries to communicate with another terminal, said

connection apparatus permits the communication if a password generated by the

password controller of said terminal is in agreement with a password generated by the

password controller of said connection apparatus (access control means, Weiss, col. 3,

line 2-14, col. 8, line 38-40).

4.   Regarding claim 2, Weiss show claim 1 above, and further show said connection

apparatus further includes:

frame transfer processing element which performs transmission/receipt of a frame

to/from said network (telephonic transmission with modem, Weiss, col. 8, line 45-46);

a plurality interfaces connected said terminals, respectively (access control means,

Weiss, col. 5, line 13-14, 28-30); and

a password comparator which compares a password added (Weiss, col. 3, line 8-

9) to the frame transmitted (telephonic transmission inherently adds password to frame be

sent, Weiss, col. 8, line 45-46) from said each terminal with the password selected by

said password controller of said connection apparatus (dynamic variable define by

interval of time, col. 2, line 68, col. 3, line 1-7), and

wherein when said password comparator shows an agreement of the passwords,

said interface transfers the corresponding frame to said frame transfer processing

element, and when said password comparator shows a disagreement of the passwords,

said interface abandons the corresponding frame (inherent to authentication systems,

where the user is denied access to the resource when it fails to authenticate the user,

Weiss, col. 3, line 25-27 (implies failure of authentication if comparison does not take

place within the same interval of time)).

5.   Regarding claim 3, Weiss show claim 1 above, and further show password

controller includes:

password storing memory which stores a plurality passwords (Weiss, col. 3, line

40-45); and

a password selector which selects one of the plurality of passwords stored in the
password storing memory, and wherein said password selector changes a selection of the
password according to passage of time (dynamic variable define by interval of time,
Weiss, col. 2, line 68, col. 3, line 1-7).

6.   Regarding claim 4, Weiss shows claim 3 above, and further show password
controller further includes:

wherein when the terminal is connected to said connection apparatus, said timer
of said password controller of said terminal is made to be synchronized with said timer of
said password controller said connection apparatus (Weiss, col. 7, line 23-25), and said
password selector changes the selection of the password in accordance with a time
represented by said timer and said setting information (Weiss, col. 5, line 11-15)

a setting memory which stores setting information (Weiss, col. 3, line 39-45)
indicating which password is to be used depending on time (Weiss, col. 4, line 57-60)

7.   Regarding claim 5, Weiss shows claim 4 above, and further show plurality of
terminals further includes:

frame transmission/receipt element which controls transmission/receipt of the
frame to/from said connection apparatus (function is inherent in telephonic transmission,
Weiss, col. 8, line 45-46), and

a frame assembly element which receives a password from said password
controller and adds the password to the frame when the frame is transmitted to said
connection apparatus (function is inherent in telephonic transmission, Weiss, col. 8, line
45-46).

8.   Regarding claim 6, Weiss shows claim 5 above, and further show frame assembly

element further receives password selection time from said password controller, and adds

the password and the password selection time to a frame to be transmitted said

connection apparatus (telephonic transmission inherently adds password to frame be sent,

Weiss, col. 8, line 45-46).

9.   Regarding claim 7, Weiss shows claim 6 above, and further show the password

controller of said connection apparatus further includes an effective time storing memory

which stores predetermined effective time (Weiss, col. 3, line 43-45), and

        wherein if a difference between a time represented by said timer and said

password selection time is within the effective time, said password selector selects a

password to be used, based on said password selection time and said setting information,

and if the difference between represented by said timer and said password selection time

is equal to the effective time or more, said password selection sector a password to be

used, based on the time represented by said timer of said connection apparatus and said

setting information (Weiss, col. 3, line 5-14).

10.   Regarding claim 8, Weiss shows claim 1 above and further show password

controller includes:

        an algorithm storing memory which stores plurality password generation

algorithms (Weiss, col. 3, line 43-45); and

        password generation element which selects one of said plurality of password

generation algorithms stored in the algorithm storing memory, and which generates a

password with the selected password generation algorithm ("predetermined algorithm" is

interpreted as selecting an algorithm before passwords are generated, Weiss, col. 4, line
21-24),

wherein said password generation element changes the password generation

algorithm accordance with passage of time, and generates a password (Weiss, col. 1, line

46-51).

11.   Regarding claim 9, Weiss show claim 8 above, and further show password

controller further includes:

a timer (digital clock, Weiss, col. 5, line 1); and

a setting memory which stores setting information indicating which password

generation algorithm is used depending time (Weiss, col. 3, line 40-41, col. 4, line 58-

59), and

wherein said timer of said password controller said terminal is made to be

synchronized with said timer of said password controller said connection apparatus when

said terminal connected to said connection apparatus, and said password generation

element selects a password generation algorithm (another predetermined algorithm,

Weiss, col. 5, line 9-10) in accordance with a time represented by said timer and said

setting information, thus generating a password (Weiss, col. 3, line 25-27).

12.   Regarding claim 10, Weiss show claim 8 above, and further show each of said

plurality of password generation algorithms generates a different password in accordance

with the time represented by said timer (Weiss, col. 5, line 11-15).

13.   Regarding claim 11, Weiss show a method of certifying a terminal comprising:

adding the password to a frame to be transmitted (telephonic transmission

inherently adds password to frame be sent, Weiss, col. 8, line 45-46);

transmitting the frame added the password from said terminal said connection

apparatus (telephonic transmission with modem, Weiss, col. 8, line 45-46);

comparing the password (Weiss, col. 3, line 8-9) which is added to the

transmitted frame with a password selected in accordance with the time said connection

apparatus (dynamic variable define by interval of time, Weiss, col. 2, line 68, col. 3, line

1-7); and

permitting the transmission of the frame if said two passwords are in agreement

with each other, and prohibiting the transmission of the frame and abandoning the frame

if said two passwords are not in agreement with each other (inherent to authentication

systems, where the user is denied access to the resource when it fails to authenticate the

user, Weiss, col. 3, line 25-27 (implies failure of authentication if comparison does not

take place within the same interval of time)).

selecting a password in accordance with time of said terminal (Weiss, col. 3, line

5-14)

synchronizing times of a connection and said terminal with each other (Weiss,

col. 7, line 23-28).

14.   Regarding claim 12, Weiss shows claim 11 above, and further show wherein said

selecting step selects one of a plurality of password generation algorithms in accordance

with a time of said terminal, and generates a password based on the selected password

generation algorithm (inherent in telephonic transmission. The password and selection

time is data being transmitted by the frame, Weiss, col. 8, line 45-46); and

said comparing step compares the password (Weiss, col. 3, line 8-9) added to the

transmitted frame with a password (telephonic transmission inherently adds password to

transmitting the frame added the password from said terminal said connection

apparatus (telephonic transmission with modem, Weiss, col. 8, line 45-46);

comparing the password (Weiss, col. 3, line 8-9) which is added to the

transmitted frame with a password selected in accordance with the time said connection

apparatus (dynamic variable define by interval of time, col. 2, line 68, col. 3, line 1-7);

and

permitting the transmission of the frame if said two passwords are in agreement

with each other, and prohibiting the transmission of the frame and abandoning the frame

if said two passwords are not in agreement with each other (inherent to authentication

systems, where the user is denied access to the resource when it fails to authenticate the

user, Weiss, col. 3, line 25-27 (implies failure of authentication if comparison does not

take place within the same interval of time)).

selecting a password in accordance with time of said terminal (Weiss, col. 3, line

5-14)

synchronizing times of a connection and said terminal with each other (Weiss,

col. 7, line 23-28).

14.   Regarding claim 12, Weiss shows claim 11 above, and further show wherein said

selecting step selects one of a plurality of password generation algorithms in accordance

with a time of said terminal, and generates a password based on the selected password

generation algorithm (inherent in telephonic transmission. The password and selection

time is data being transmitted by the frame, Weiss, col. 8, line 45-46); and

said comparing step compares the password (Weiss, col. 3, line 8-9) added to the

transmitted frame with a password (telephonic transmission inherently adds password to

frame be sent, Weiss, col. 8, line 45-46) generated by one of a plurality of password

generation algorithms (Weiss, col. 3, line 43-45) in said connection apparatus selected in

accordance with the time of said connection apparatus (Weiss, col. 2, line 24-30, line 39-

42).

15.   Regarding claim 13, Weiss show claim 11 above, and further show said adding

step further adds a selection time, at which said password is selected, to a frame to be

transmitted (Weiss, col. 5, line 11-15); and

said comparing step compares the password which is added to the transmitted

frame with a password selected in said connection apparatus depending on said selection

time added to the transmitted frame (inherent in telephonic transmission. The password

and selection time is data being transmitted by the frame, Weiss, col. 8, line 45-46).

16.   Regarding claim 14, Weiss show claim 13 above, and further show one of a

plurality of password with a time of said terminal, the selected password generation

algorithms in accordance and generates a password based on algorithm ("predetermined

algorithm" is interpreted as selecting an algorithm before passwords are generated,

Weiss, col. 4, line 21-24);

said adding step adds the password and a selection time, at which said password is

generated, to a frame to be transmitted (inherent in telephonic transmission. The

password and selection time is data being transmitted by the frame, Weiss, col. 8, line 45-

46); and

said comparing step compares the password (Weiss, col. 3, line 8-9) added the

transmitted frame with a password (telephonic transmission inherently adds password to

frame be sent, Weiss, col. 8, line 45-46) generated by one of, a plurality of password

generation algorithms (Weiss, col. 3, line 43-45) in said connection apparatus selected

accordance with said selection time added the transmitted frame (Weiss, col. 2, line 24-

30, line 39-42).

17.   Regarding claim 15, Weiss show a connection apparatus connected terminals

comprising:

        a password controller which changes password according passage of time

(interval of time, Weiss, col. 2, line 68, col. 3, line 1); and

        a password comparator which compares a password added to a frame (telephonic

transmission inherently adds password to frame be sent, Weiss, col. 8, line 45-46) sent

from one of said plurality of terminals (computer, Weiss, col. 2, line 65) with a password

generated by said password controller (algorithm, Weiss, col. 2, line 66-67),

        wherein when a frame sent from one of said plurality of terminals, said

connection apparatus (access control means) permits the transmission of the frame if said

password comparator indicates that the password of the frame and the password

generated by said password controller are in agreement with each other (Weiss, col. 3,

line 2-14).

18.   Regarding claim 16, Weiss show claim 15 above, and further show said password

controller includes:

        password storing memory which stores a plurality of passwords (Weiss, col. 3,

line 40-45); and

        a password selector which selects one of the plurality of passwords stored in the

password storing memory, and wherein said password selector changes a selection of the

selector which selects one password according to passage of time (dynamic variable

define by interval of time, Weiss, col. 2, line 68, col. 3, line 1-7).

Conclusion

19.　　Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Mossadeq Zia whose telephone number is 703-305-8425.

The examiner can normally be reached on Monday-Friday between 8:30am - 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Greg Morse can be reached on 703-308-4789. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR. Status

information for unpublished applications is available through Private PAIR only. For

more information about the PAIR system, see http://pair-direct.uspto.gov. Should you

have questions on access to the Private PAIR system, contact the Electronic Business

Center (EBC) at 866-217-9197 (toll-free).

Mossadeq Zia
Examiner
Art Unit 2134

mz
6/25/04

GREGORY MORSE
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100